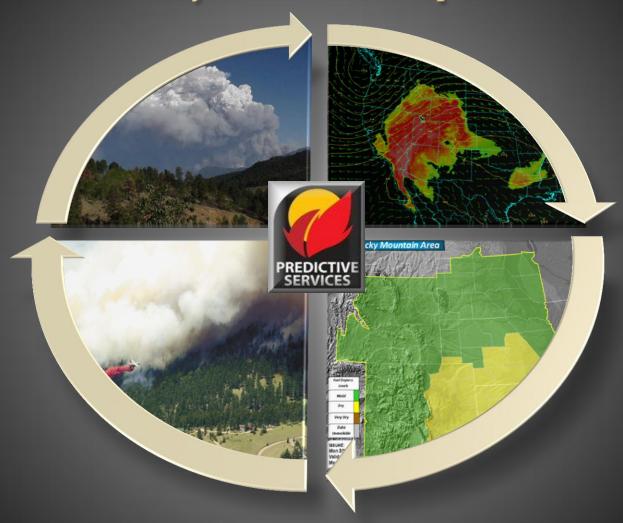


#### Predictive Services

RMA Fire Risk Analysis and Outlook- Update March 20, 2012

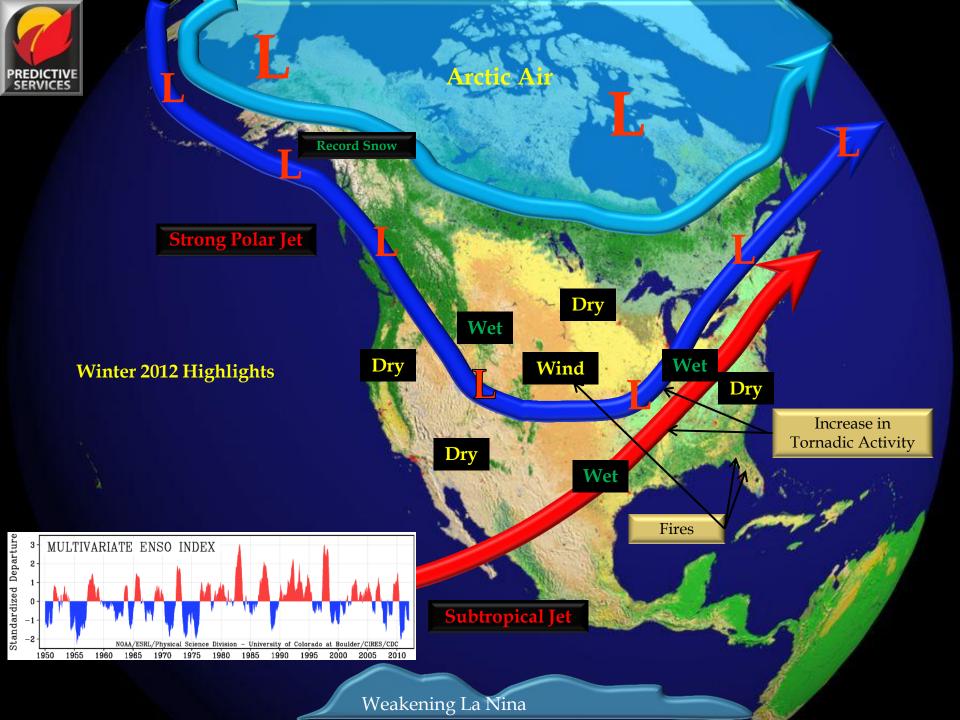


Tim Mathewson - Fire Meteorologist- RMACC Russ Mann- Fire Meteorologist- RMACC Marco Perea- Intelligence Coordinator- RMACC



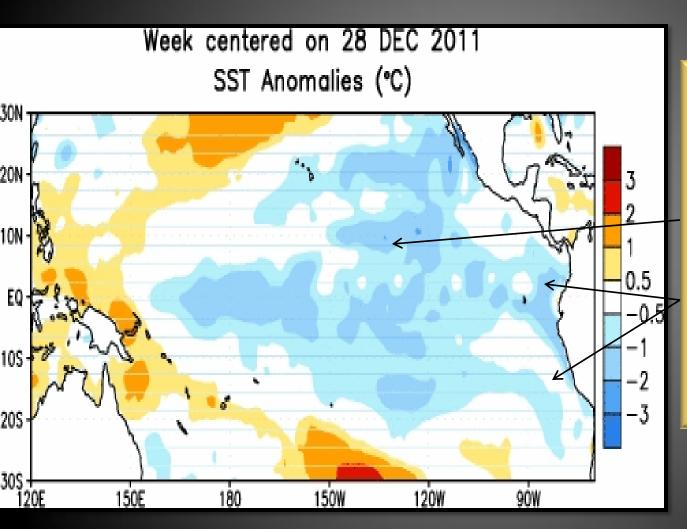
#### Considerations

- □ Weather Rewind- National Climate Snapshot-
- □ Current ENSO Conditions-
- □ Current Snowpack-
- □ Precipitation/Temperature Anomalies-
- **□** Spring Fire Risk Outlook-





Tropical Pacific SST Loops (December 28-March 14)



#### Tropical Pacific SST Anomalies (°C)

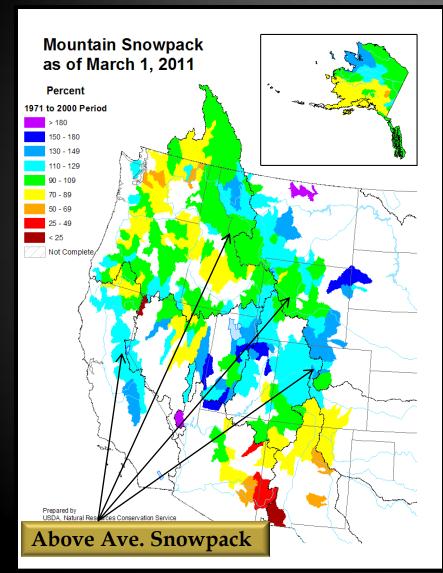
Though weakening, La Nina conditions continue across the Eastern Tropical Pacific

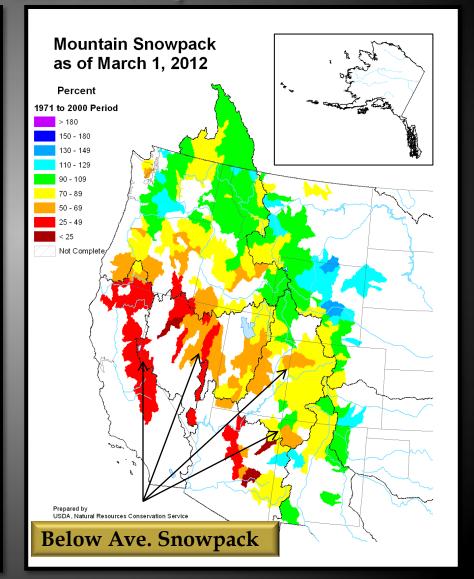
(Neg) SSTs continue across much of the tropical pacific basin

However, (Pos) SSTs have developed along the coast of South America, which may have significant impacts on weather patterns this spring.



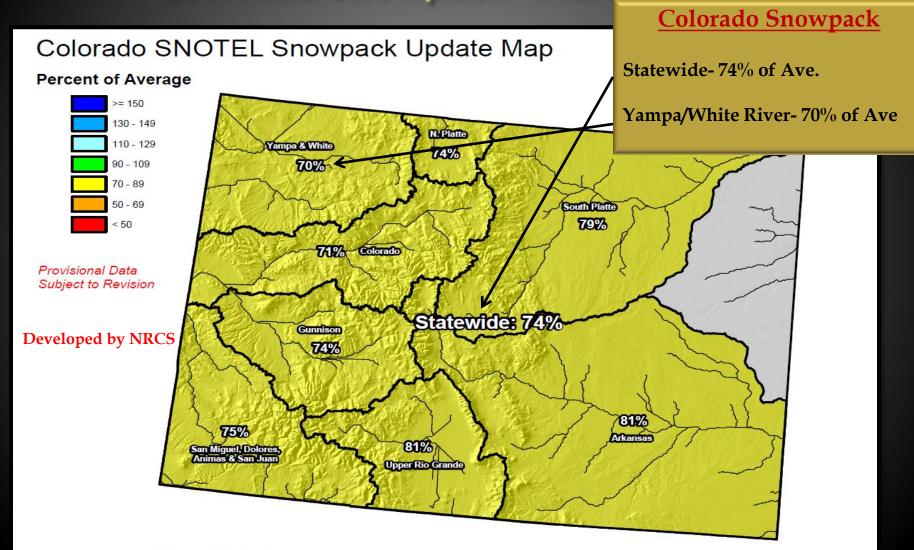
Western U.S. Snowpack





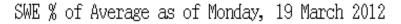


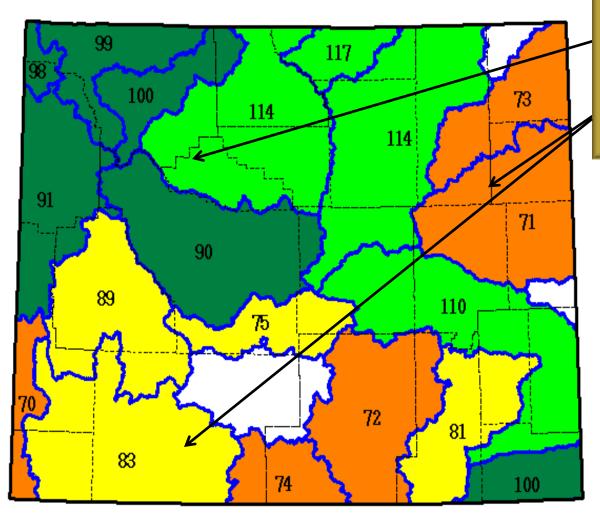
Colorado Snowpack -March 16, 2012





Wyoming Snowpack -March 19, 2012





#### **Wyoming Snowpack**

100%-115% of Ave northern Wyoming

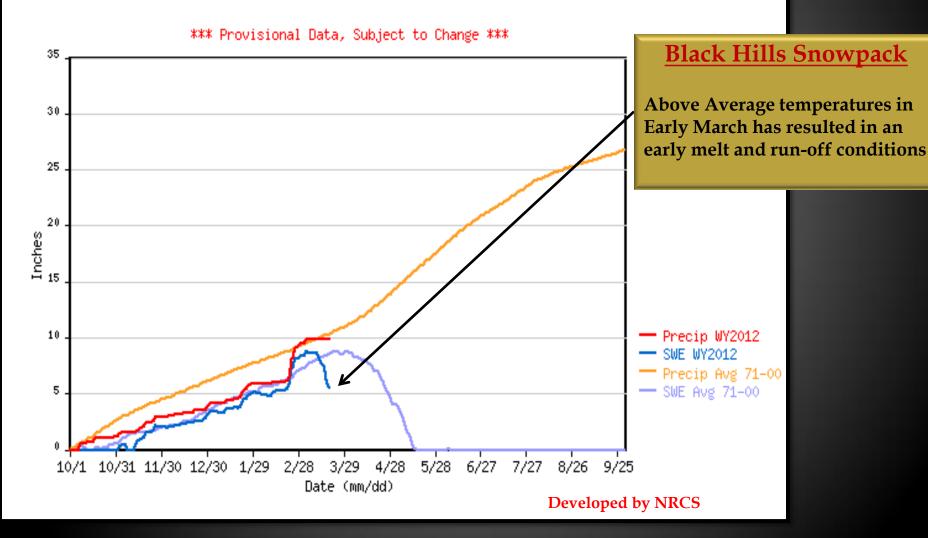
70-80% of Ave southern and northeastern Wyoming

- 150 to 175
- 125 to 150
- 110 to 125
- 90 to 110
- 75 to 90
- 50 to 75
- 25 to 50
- 4 25
- □ No Data



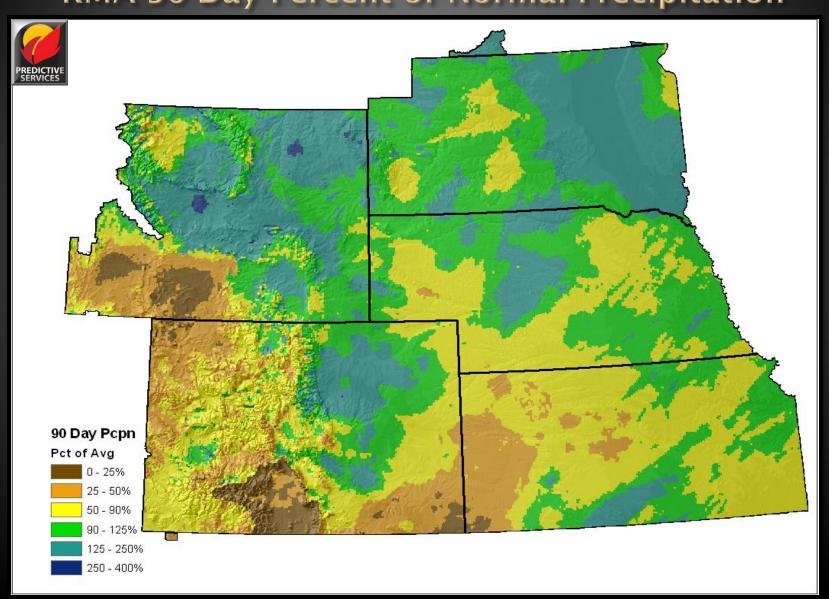
Black Hills Snowpack -March 19, 2012





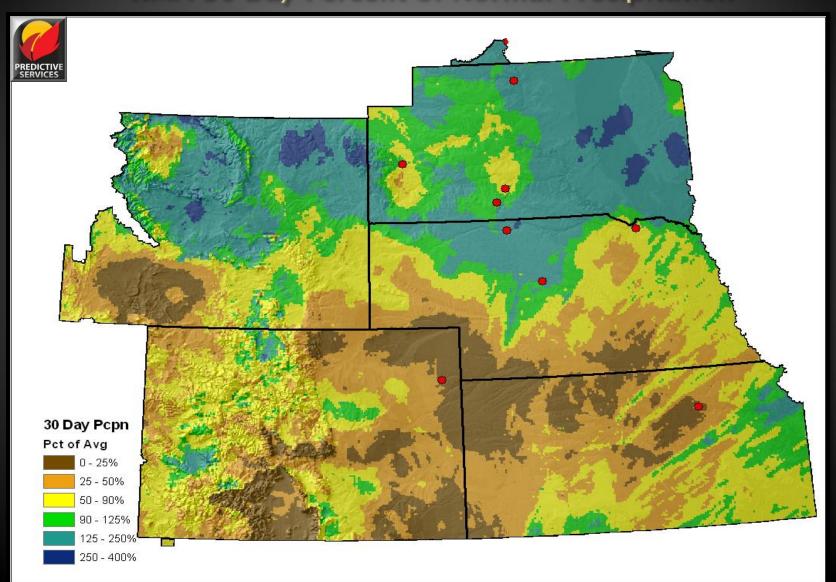


RMA 90-Day Percent of Normal Precipitation

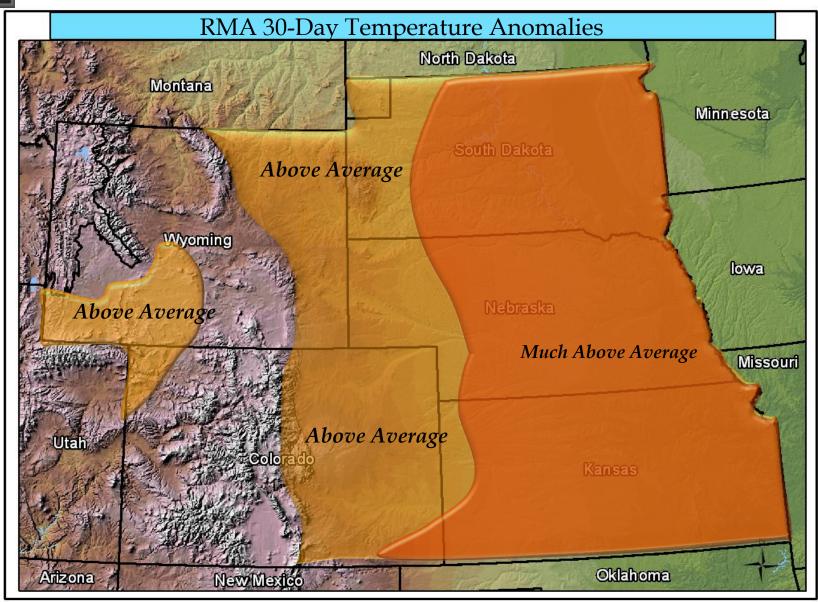




RMA 30-Day Percent of Normal Precipitation









Regional Drought Monitor

#### U.S. Drought Monitor

March 13, 2012

Valid 7 a.m. EST

**High Plains** 

Drought Conditions (Percent Area)

	prought conditions (r crock rives)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	42.17	57.83	21.23	5.06	1.56	0.04
Last Week (03/06/2012 map)	45.82	54.18	20.38	5.17	1.56	0.04
3 Months Ago (12/13/2011 map)	63.68	36.32	17.90	8.62	2.59	0.27
Start of Calendar Year (12/27/2011 map)	61.66	38.34	18.12	7.22	2.07	0.04
Start of Water Year (09/27/2011 map)	70.09	29.91	17.44	11.97	6.22	2.96
One Year Ago (03/08/2011 map)	64.10	35.90	16.99	7.78	0.00	0.00





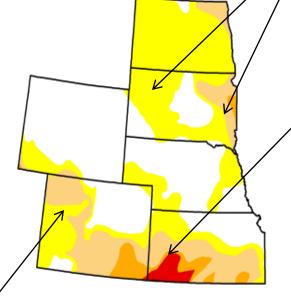




D3 Drought - Extreme D4 Drought - Exceptional

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu











Released Thursday, March 15, 2012 Michael Brewer, National Climatic Data Center, NOAA

Drought Development and Intensification

Drought Intensification Compared to a Year Ago

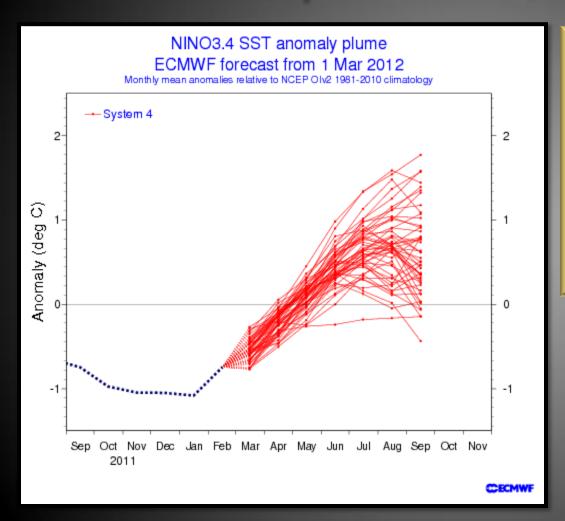
Improvement During Fall and Winter



Drought Development and Intensification



**Tropical Pacific SST Forecasts** 



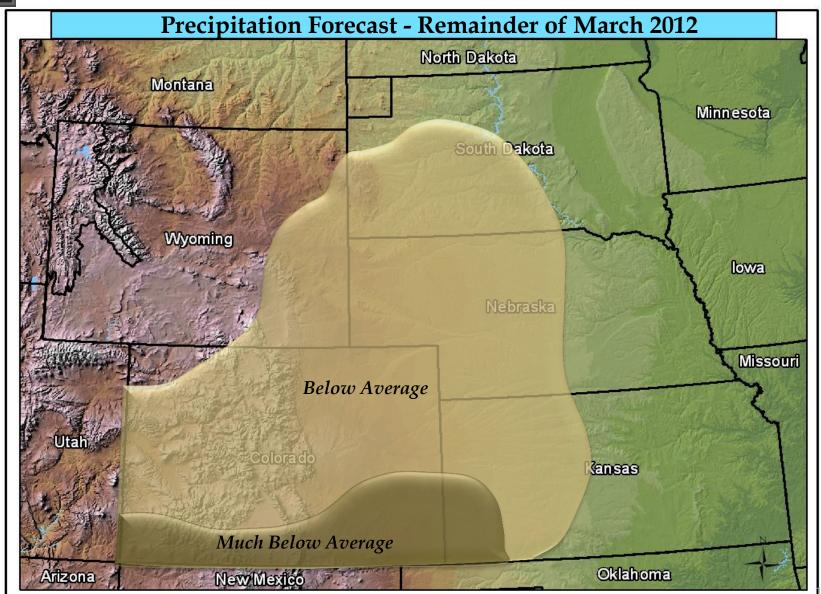
#### **ENSO Forecast**

ECMWF Forecast from March 1, 2012

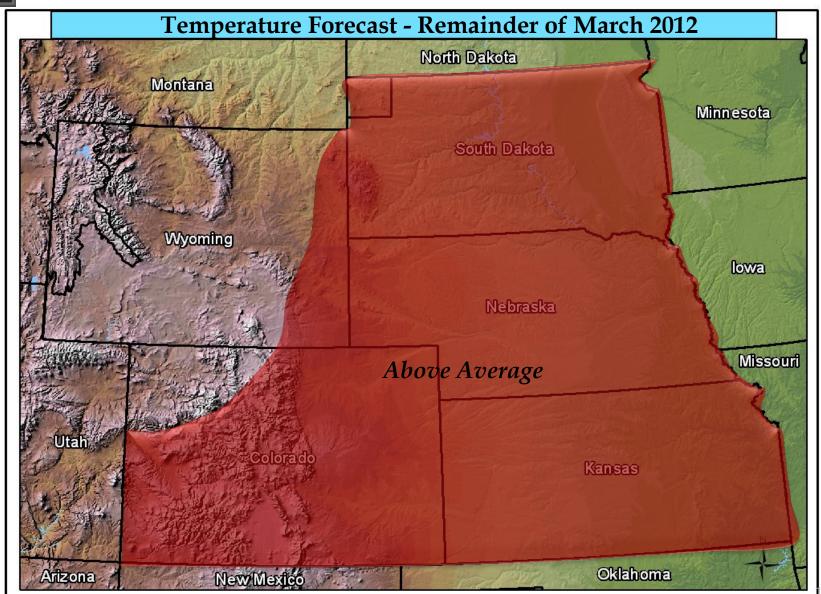
Suggest Neutral Conditions By Mid April

Possible El Nino Conditions Summer 2012

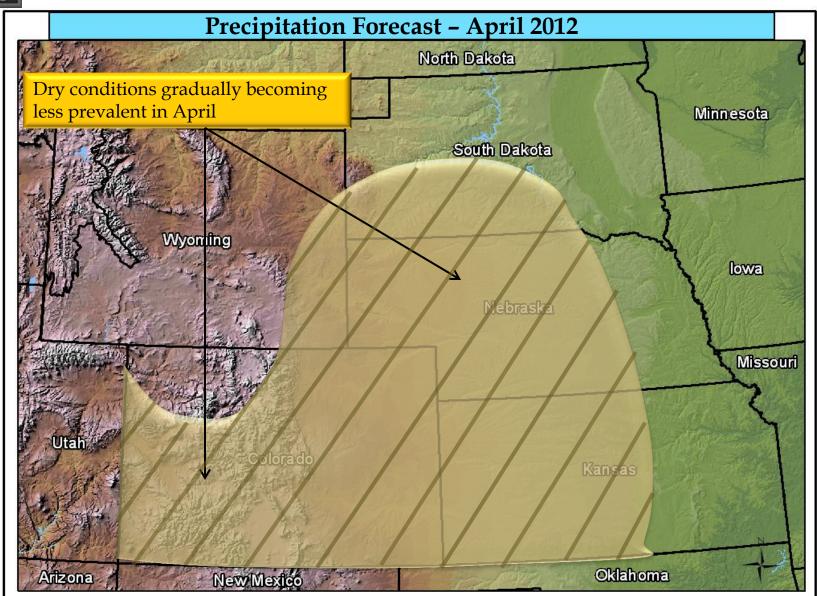




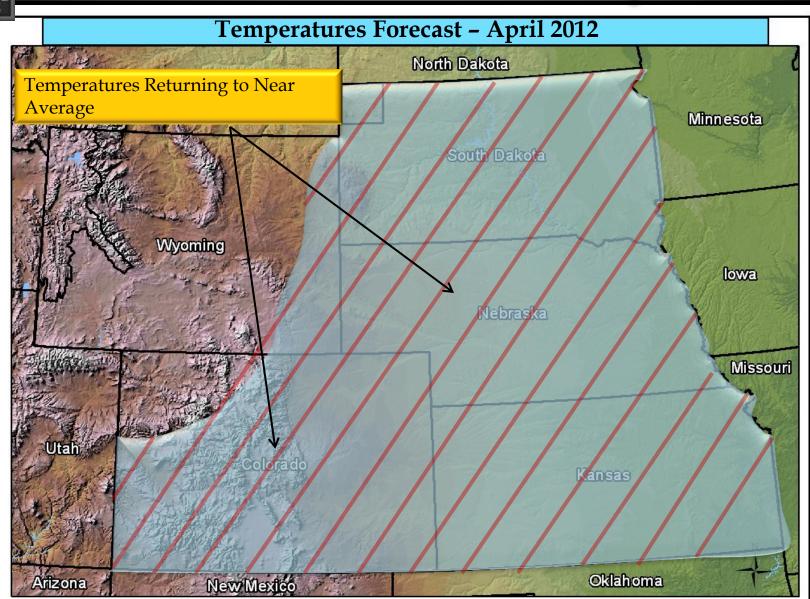




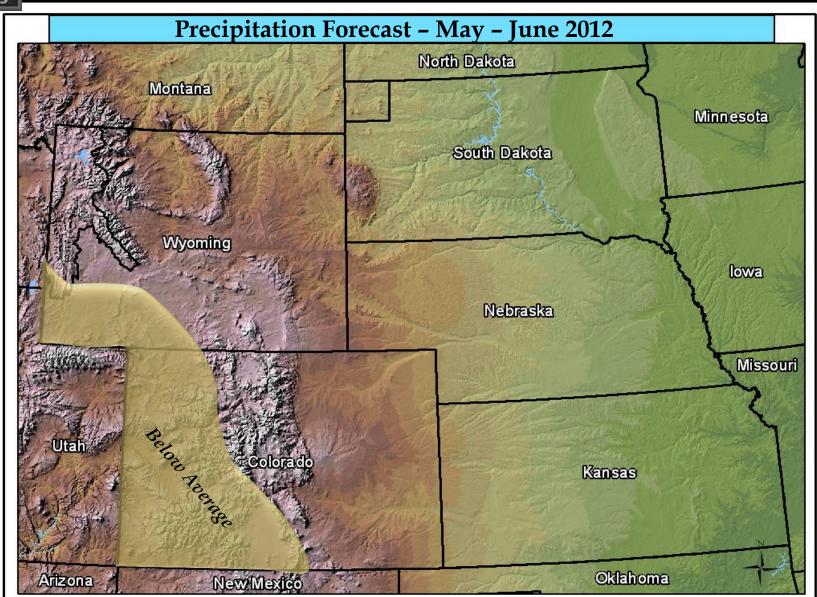




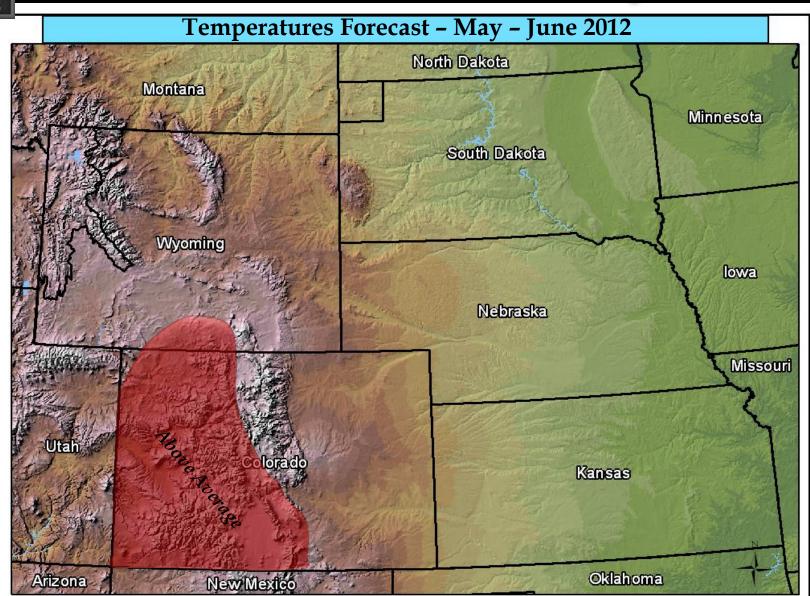








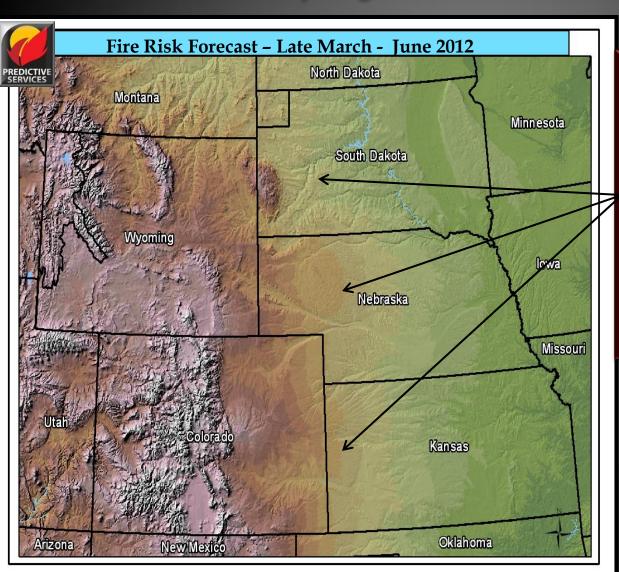








Spring 2012 Fire Risk Forecast



La Nina conditions will continue to impact weather patterns for the next several weeks.

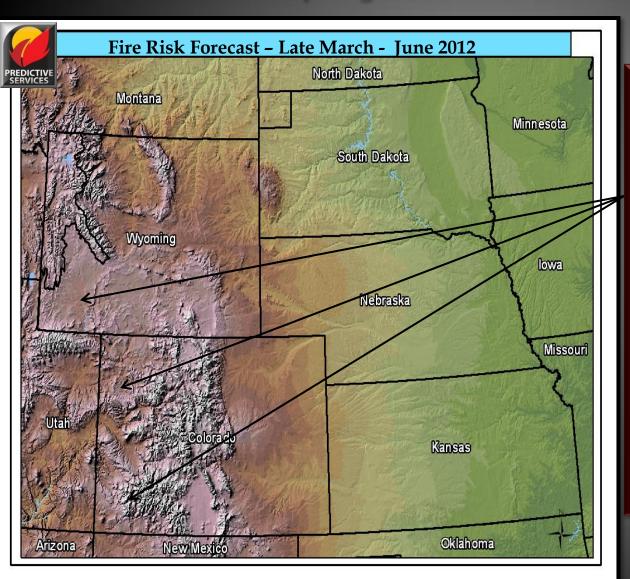
Mainly east of the divide, periods of:

Above Average Temperatures Low Humidity Stronger Than Average Wind Events Pre-Green Up Fuel Conditions

However, green-up, and a wetter forecast will decrease current spring fire conditions by mid to late April



Spring 2012 Fire Risk Forecast



As mentioned in the January outlook, below average snowpack and precipitation deficits raised early concerns about the upcoming 2012 summer fire season across much of western Colorado.

Snowpack and precipitation trends (below average) during the last 60 days has maintained these concerns

Though conditions in April are likely to improve, the May thru June outlooks support drier and warmer than average conditions

The next update to this outlook is scheduled for late April 2012.